

Week	Date	Branches and topic
1	24-Aug to 28-Aug	<b>Orientation:</b> Essential agreement Goal Setting Develop your Math Binder *Review topics (MYP2: Ch1, 4, 5, 6 & 8)
2	31-Aug to 4-Sep	<b>Directed numbers</b> How we got here? Inquiry into different types of number Concepts of directed number (size, magnitude and opposites) Directed number and the number line Using number line to add and subtract Adding and subtracting negatives Multiplying and dividing directed numbers Mixed operations and solving problems of directed numbers Using your calculator (New Trend Ch1), (MYP2 Ch3) (Mathletic workbook) *Review topics (MYP2: Ch1, 4, 5, 6 & 8)
3	7-Sep to 11-Sep	<b>Coordinate Geometry</b> Ordered pairs Rectangular Coordinate system (draw and plot points) Distant between two points (straight line only) Areas of polygon *Polar coordinate system *Transformations on a rectangular coordinate plane Real life application of using coordinate geometry (Journey Map) (New Trend Ch9) (MYP2 Ch12) (Mathletic workbook) *(MYP2 Ch19) <b># Assessment 1 (A C) – The Journey here:</b> <b>17/9 or 18/9 – Map checking</b> <b>22/9 – written paper</b>
4	14-Sep to 18-Sep	<b>Algebra, Pattern and sequence</b> Algebraic Expression Number machine Substitution into formula Geometric patterns Using patterns Practical problems Investigate different number sequences (New Trend Ch2) (MYP2 Ch7)
5	21-Sep to 25-Sep	<b>*Algebraic expression (*+Polynomial)</b> Manipulation of simple algebraic expressions involving substitution factorization and expansion Simply algebraic expression (expansion and factorization)
6	28-Sep to 2-Oct	The distributive law Simplifying algebraic Brackets with negative coefficients The product $(a+b)(c+d)$ Geometric applications Factorisation of algebraic expressions *(New Trend Ch7)
7	5-Oct to 9-Oct	<b>Equation in one unknown</b> Form and solve equations in 1 unknown Equations Maintaining balance Inverse operations Building and undoing expressions Solving equations Equations with a repeated unknown (New Trend Ch4) (MYP2 Ch9) <b># Assessment 2 (B D) – Pattern Poster: The week of 2 Nov (Due 6/11)</b>
8	12-Oct to 16-Oct	<b>Parallel lines, Angles, Triangle proofs &amp; Circle</b> Points and lines Measuring and classifying angles and triangles Angle properties and angles of a triangle Geometric construction Angle pairs Parallel lines Angles of isosceles triangles Properties of polygons and quadrilaterals Angles of a quadrilateral Interior angles of polygons *Deductive geometry (triangle proofs) Part of a circle Circumference Area of a circle Cylinders *Investigate into how important $\pi$ is (New Trend Ch3 & 13) (MYP2 Ch2, 10 & 17) <b># Assessment 3 (A) – 5/1</b>
9	19-Oct to 23-Oct (Mid Term Break)	
10	26-Oct to 30-Oct	
11	2-Nov to 6-Nov	
12	9-Nov to 13-Nov	
13	16-Nov to 20-Nov	
14	23-Nov to 27-Nov	
15	30-Nov to 4-Dec	
16	7-Dec to 11-Dec	<b>CAS Trip Week</b>

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17	14-Dec to 18-Dec	IDU Week
18	21-Dec to 25-Dec	Christmas and New Year Holiday
19	28-Dec to 1-Jan	
20	4-Jan to 8-Jan	
21	11-Jan to 15-Jan	Revision for assessment 3 # Assessment 3 (A) – 5/1 <b>Linear Equation in two unknowns</b> Linear equations in two unknowns
22	18-Jan to 22-Jan	Graphs of linear equations in two unknowns
23	25-Jan to 29-Jan	Points on the graphs of linear equations in two unknowns
24	1-Feb to 5-Feb	Form equations and solve problems of linear equations in two unknowns (New Trend Ch11) # Assessment 4 (B): 2/2 & 3/2
25	8-Feb to 12-Feb	Chinese Lunar New Year Holiday
26	15-Feb to 19-Feb	
27	22-Feb to 26-Feb	
28	29-Feb to 4-Mar	<b>Statistical graphs</b> Types of data Data collection Categorical and grouping of data Histograms
29	7-Mar to 11-Mar	Scatter diagrams Choosing appropriate statistical graphs
30	14-Mar to 18-Mar	The mean, median and mode (New Trend Ch6 and 10) (MYP2 Ch18)
31	21-Mar to 25-Mar	# Assessment 5 (C D) – Brochure: Start on the week of 18/3 Due 24/3 (5 lessons)
32	28-Mar to 1-Apr	Easter Holiday
33	4-Apr to 8-Apr	<b>Ratios and Rates</b> Ratio Writing ratios as fractions Equal ratios
34	11-Apr to 15-Apr	Ratios of three like quantities Proportions Using ratios to divide quantities Scale diagrams/ Scale Plan
35	18-Apr to 22-Apr	Gradient of slope (New Trend Ch12) (MYP2 Ch14)
36	25-Apr to 29-Apr	Ratios and Rates Comparing prices Using rates Average speed
37	2-May to 6-May	Density Converting rates *Golden ratio (New Trend Ch12, MYP2 Ch20)
38	9-May to 13-May	Review and catch up week (~10 lessons)
39	16-May to 20-May	
40	23-May -27-May	
41	30-May to 3-Jun	<b>Summative Assessment Week</b> # Assessment 6 (A) – 26/5-1/6 (Board based test for numbers, equations, geometry, graphs, rate & ratio)
42	6-Jun to 10-Jun	<b>Getting ready for SLC (20-24/6 – 3-5 lessons)</b> <b>Logic &amp; Set*</b>
43	13-Jun to 17-Jun	Why aren't people logical? Board games/ Online logic puzzles
44	20-Jun to 24-Jun	Venn Diagram $p \wedge q$ $p \vee q$
45	27-Jun to 1-Jul	If, then...and, or... (Supplementary notes) (Mathletics tasks)

**\* Topics with the star sign are extended topics**

**At the end of each term, need to spend 1 or 2 lesson(s) to check folder or e-portfolio (i-book)**

**Textbooks:**

New Trend: New Trend Mathematics (second edition) S1A and S1B by Chan Mung Hung *et al.* Chung Tai Educational Press  
H&H MYP 2: Mathematics for the international students 7 MYP 2 (second edition) by Haese *et al.* Haese & Harris Publications 2014